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PATENT (5181-68300/P5074)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Filed: Invent	nay S. Lee	outing Scheme	<i>©</i> © © © © © © © © © © © © © © © © © ©	the United States Postal S class mail in an envelo Patents, Washington, DC 2	Unknown 2151 5181-68300 orrespondence is being deposited with Service with sufficient postage as first ope addressed to Commissioner for 20231, on the date indicated below. ert C. Kowert registered Representative	
	INI	FORMATION D		Signature Signature SURE STATEMI	Date Date	
Commi	ssioner for Pate		DUIC	SOLUL SILLE	RECEIVED	
	gton, D.C. 202				AUG 2 7 7001	
Sir:	Applicant reque	sts consideration of	· 🛛 the	references listed on	Technology Center 2100 the attached Form PTO-	
					raph 3. A copy of each	
		orm PTO-1449 is en				
1.	This Information	Disclosure Stateme	ent is su	ubmitted:		
;		 within 3 months of the filing date of a national application other than a continued prosecution application under § 1.53(d); within 3 months of the date of entry of the national stage as set forth in § 1.491 in an International application; before the mailing date of a first Office Action on the merits; or before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114. 				
1				aragraph 1a and prio	or to the mailing date of a ce, and thus:	

certification of paragraph 2 below is provided, or a fee of \$180.00 is

enclosed.

	c.	after the mailing date of a final Office Action or a Notice of Allowance and prior to payment of the issue fee, and thus: the certification of paragraph 2 below is provided and a fee of \$180.00 is enclosed.
2.	It is he	reby certified:
		that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or
		that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in § 1.56 (c) more than three months prior to the filing of the Statement.
3.	\boxtimes	Consideration of the following additional information (including any co-pending or abandoned U.S. applications, prior uses and/or sales, etc.) is requested:
		U.S. Patent Application Serial No. 09/850,930 (5181-75500) U.S. Patent Application Serial No. 09/851,299 (5181-75400) U.S. Patent Application Serial No. 09/740,132 (5181-68600) U.S. Patent Application Serial No. 09/740,130 (5181-73000) U.S. Patent Application Serial No. 09/739,924 (5181-75300)
4.	For ea	ch non-English language reference listed on the attached Form PTO-1449:
		reference is made to an English language translation submitted herewith, and/or
		reference is made to a foreign patent office search report (in the English language) submitted herewith, and/or
		reference is made to an English language translation of a foreign patent office search report submitted herewith, and/or
		reference is made to the concise explanation contained in the specification of the present application at page(s), and/or
		reference is made to the concise explanation set forth below:
5.		Applicant also offers the following comments for the Examiner's consideration:
6.		Also enclosed is a copy of a foreign search report citing these references.
7.		The listed documents were brought to the attention of the Applicant(s) after payment of the issue fee in the captioned case. The documents were cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. Applicant(s) request this Information Disclosure Statement and attached Form PTO-1449 be placed in the file of the captioned application.

8. Applicant(s) requests that the Information Disclosure Statement and attached Form PTO-1449 and references, which are being filed before the grant of the patent and pursuant to 37 C.F.R. § 1.97(i), be placed in the file of the captioned application.

If any required fees are missing, the Commissioner is authorized to charge said fees to Conley, Rose & Tayon, P.C. Deposit Account No. 50-1505/5181-68300/RCK.

Respectfully submitted,

Robert C. Kowert

Reg. No. 39,255

Attorney for Applicant(s)

CONLEY, ROSE & TAYON, P.C. P. O. Box 398 Austin, Texas 78767 (512) 476-1400

Date: <u>August 22, 2001</u>

Form PTO-1449 (modified List of Patents and Publications For Applicant's Information Disclosure Statement

Y. DKT. NO. 5181-68300

APPLICANT: Lee

SERIAL NO. 09/755,479

GROUP: 2151 ·

FILING DATE: January 4, 2001

(L	se severa	al sheets if necessary)	FILING DA	TE: January 4, 2001				
		τ	J.S. PATENT	DOCUMENTS				
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
	A1	6,016,510	1/18/00	Quattromani, et al.				
	A2	6,023,753	2/8/00	Pechanek, et al.				
	A3	5,689,661	11/18/97	Hayashi, et al.		RECE	VED	
	A4	6,167,502	12/26/00	Pechanek, et al.		AUG 2	2001	
	A5	6,101,181	8/8/00	Passint, et al.		HUU &	2001	
•	A6	5,720,025	2/17/98	Wilkes, et al.	T	echnology Center 2100		
	A7	5,970,232	10/19/99	Passint, et al.				
	A8	6,055,618	4/25/00	Thorson				
	A9	5,701,416	12/23/97	Thorson, et al.				
	A10	5,737,628	4/7/98	Birrittella, et al.				
, i <u> </u>	A11	5,689,646	11/18/97	Thorson				
EXAM.	REF.	FOR DOCUMENT NUMBER	EIGN PATE	NT DOCUMENTS COUNTRY	CLASS	SUB	TRANSLATION	
INITIALS	DES.					CLASS	YES/NO	
	A12	99/26429	5/27/99	WO				
	A13	0 785 512	7/23/97	EP				
		OTHER ART (1	ncluding Autho	r, Title, Date, Pertinent P	ages, Etc.)			
	A14	Bradley Kuszmaul, Mercury Computer Systems, Inc., "The RACE Network Architecture," (posted at www.mc.com/techlit/#tech_brief prior to this), 6 pages.						
	A15							
	A16	Prasant Mohapatra, "Wormhole Routing Techniques for Directly Connected Multicomputer Systems, ACM Computing Surveys, Vol. 30, No. 3, September 1998, 37 pages.						
	A17	A17 Christopher Glass and Lionel Ni, "The Turn Model for Adaptive Routing," Journal of the Association for Computing Machinery, Vol. 41, No. 5, September 1994, pp. 874-902.						

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Form PTO-1449 (modifications

List of Patents and Publications
For Applicant's Information
Disclosure Statement

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(Use several sheets if necessary)

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RECEIVED

	OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) ALIC 2 7 2001
A18	Reddy, Dept. of Computer & Information Sciences, "A Dynamically Reconfigurable WDM LAN Based on Reconfigurable Circulant Graph," IEEE, 1996, 4 pages. Technology Center 2100
A19	Various Abstracts beginning with Funahashi, Jouraku and Amano, "Adaptive Routing for Recursive Diagonal Torus," Transactions of the Institute of Electronics, Information and Communication Engineers D-I, vol. J83D-I, no. 11, November 2000, pp. 1143-53.
A20	Milan Kovacevic, Center for Telecommunications Research, "On Torus Topologies with Random Extra Links," IEEE 1996, pp. 410-418.
A21	Dally, et al., The Torus Routing Chip, Distributed Computing, Springer-Verlag 1986, pp. 187-196.
A22	Susan Hinrichs, "A Compile Time Model for Composing Parallel Programs," IEEE Parallel and Distributed Technology, 1995, 19 pages.
A23	"CRAY T3D System Architecture Overview Manual," ftp://ftp.cray.com/product-info/mpp/T3D_Architecture_Over/T3D.overview.html, Cray Research, 1993, 40 pages.
A24	Marco Fillo, et al., "The M-Machine Multicomputer," Laboratory for Computer Science, Massachusetts Institute of Technology, A.I. Memo No. 1532, Ann Arbor,. March 1995, 14 pages.
A25	Noakes, et al., "The J-Machine Multicomputer: An Architectural Evaluation," Proceedings of the 20 th International Symposium on Computer Architecture, May 1993, 12 pages.
A26	Dally, et al., "Architecture of a Message-Driven Processor," International Conference on Computer Architecture, June 1987, pp. 189-196.
A27	Dennison, Lee and Dally, "High-Performance Bidirectional Signalling in VLSI," Massachusetts Institute of Technology, October 12, 1992, 20 pages.
A28	Dally, et al., "Architecture and Implementation of the Reliable Router," Mass. Institute of Technology, Proceedings of Hot Interconnects II, Stanford CA, August 1994, 12 pages.
A29	Dally, et al., "The Reliable Router: A Reliable and High-Performance Communication Substrate for Parallel Computers," Proceedings of the First International Parallel Computer Routing and Communication Workshop, Seattle WA, May 1994, 15 pages.
A30	Dennison, et al., "Low-Latency Plesiochronous Data Retiming," Mass. Institute of Technology, Proceedings of the 1995 Advanced Research in VLSI Conference, Chapel Hill NC, March 1995, 12 pages
A31	Whay S. Lee, "Mechanism for Efficient, Protected Messaging," Massachusetts Institute of Technology, Dept. of Electrical Engineering and Computer Science, January 20, 1999, 147 pages.
A32	Dennison, "Reliable Interconnect Networks for Parallel Computers," Mass. Institute of Technology, Dept. of Electrical Engineering and Computer Science, April 18, 1991, 79 pages.
A33	Thucydides Xanthopoulos, "Fault Tolerant Adaptive Routing in Multicomputer Networks," Dept. of Electrical Engineering and Computer Science, Mass. Institute of Technology, January 20, 1995, 152 pages.
A34	Dennison, "The Reliable Router: An Architecture for Fault Tolerant Interconnect," Dept. of Electrical Engineering and Computer Science, Mass Institute of Technology, May 24, 1996, 145 pages.

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Form PTO-1449 (modified)
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(Use several sheets if necessary)

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EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
		OTHER ART (1	Including Autho	or, Title, Date, Pertinent Pa	ages, Etc.)			
	A35	"Introduction To Parallel Algorithms and Architectures: Arrays, Trees, Hypercubes," F. Thomson Leighton, Morgan Kaufmann Publishers, 1992, pp. 1-831.						
	A36	CPS-ACS-72, October 30, 1992 (revised May 25, 1993), 28 pages.						
	A37							
	A38 Steve Ward, et al., "A Modular, Scalable Communications Substrate," MIT Laboratory for Computer July 1993, 10 pages.						uter Science,	
	A39			Model for Adaptive Routing 2, 1992), pages 278-287 (num			SU-CPS-	
	A40 Thomas Stricker, "Message Routing on Irregular 2D-Meshes and Tori," School of Computer Science, Mellon Univ., January 15, 1991, pages 170-177 (numbered herein as 1-19).						ence, Carnegie	
	A41	Dally, et al., "The J-Machir Architecture - Selected Pap		ive," in 25 Years of the Intern	national Sym	posia on C	omputer	
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